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BOOK REVIEW

Proceedings of the XVIII International Linear Accelerator Conference Vols I & II
(August 26-30, 1996, Geneva, Switzerland)

edited by C Hill and M Vretenar

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These Proceedings cover the field of linear accelerators including its role in particle physics research and the wide range of its applications in many other disciplines and technologies.

The conference was held for five days during 26th to 30th August 1996 at Geneva, Switzerland.

There were many invited talk sessions as well as poster sessions. The list of invited talks is given below to get an overview of the conference.

On Monday, August 26, 1996 the topics were as follows : The creation of SLAC Leading to 30 years of operation; Major Projects for the Use of High Power Linacs; APT Accelerator Technology; Halo Simulation in a Realistic Proton Linac Design; Overview of Linac Applications at Future Radioactive Beam Facilities; Performance of the Argonne Wakefield Accelerator Facility and Initial Experimental Results. There was a status report on Jefferson Lab as well. There were invited talks on the following topics during Aug 27 : Review of Electron-Positron Linear Colliders; SLC Status and NLC Design and R & D; New Linac Based Free Electron Laser Projects using Bright Electron Beams; Pb injector at CERN; The New GSI Prestripper Linac for High Current Heavy Ion Beams; Beam Test of the Pre-Injector and the 3-MeV $\bar{H}$ RFQ with a New Field Stabilizer PISL; RF Photoinjectors; Measurement of Short Bunches; A High Performance Spot Size Monitor; Construction, Commissioning and Operational Experience of the Advanced Photon Source (APS) Linear Accelerator.

On August 28th, the talks were on the following : ATF Linac Commissioning; CLIC Test Beam Facilities-Status and Results; Review of Beam Dynamics and Instabilities in Linear Colliders; Accelerating Structures for Multibunches; Laser Ion Source Development for Heavy Ions. Beam Test Results of the INS RFQ/IH Linac; Conceptual Design of a Superconducting High-Intensity Proton Linac.

Further, there were ten invited talks on 29th August, these are Smooth Transverse and Longitudinal Focussing in High-Intensity Ion Linacs; Design Issues for High-Intensity, High Energy Proton Accelerators; Review of New Developments in the Field of Induction Accelerators (Electrons and Ions); TERA Programme : Medical Applications of Protons and Ions. Medical Applications of Electron Linacs; The success and the Future of EPICS; Operational Experience with the CEBAF Control System; Ground Motion Studies with Respect to Linac Performance; Dark Currents; Upgrade to the 8-GeV Electron Linac for KEKB. During the closing day *i.e.* on 30th August, there were only five invited talks which are as follows : High Luminosity Muon Collider Design; Advanced RF Power Sources for Linacs; Role of Lasers in Linear Accelerators; Status of ALPI and Related Developments of Super Conducting Structures; Superconducting Structures for High Intensity Linac Applications.

At the end, a list of participants with their full addresses including *e*-mail addresses is given which may be very useful.

Many photographs of the conference have been shown at the end of both the volumes which are really interesting to the readers.

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